

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P275688

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-S-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2296.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

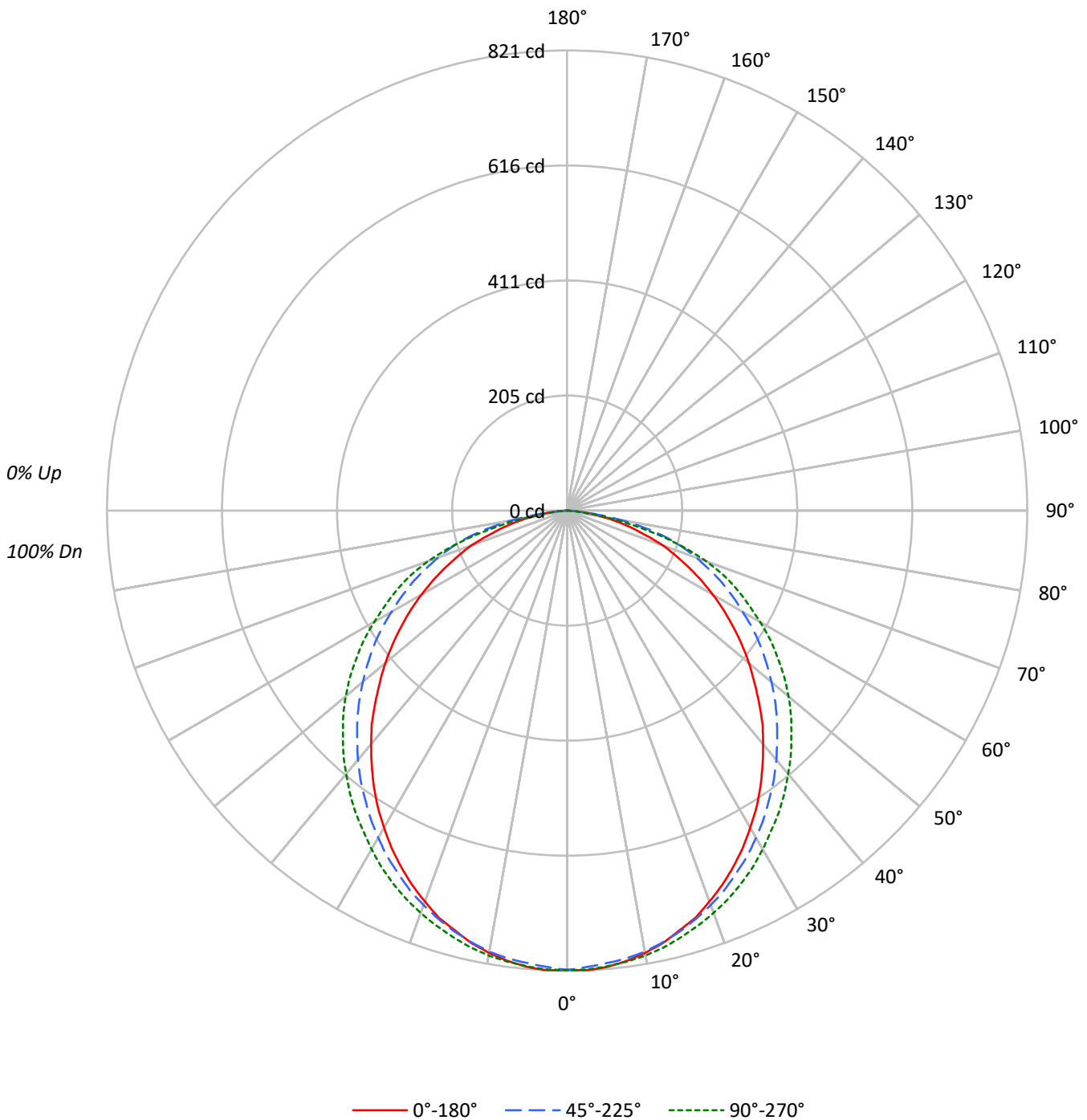
Input Watts (W): 22.041  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2206	2206	2206
5°	2208	2189	2205
10°	2190	2184	2202
15°	2160	2166	2195
20°	2125	2145	2188
25°	2082	2119	2180
30°	2030	2094	2168
35°	1975	2064	2162
40°	1911	2040	2155
45°	1841	2014	2153
50°	1773	1992	2159
55°	1698	1976	2152
60°	1617	1948	2138
65°	1522	1943	2138
70°	1433	1926	2078
75°	1242	1882	1776
80°	1006	1517	1182
85°	667	528	352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	3.4
10°-20°	220.2	9.6
20°-30°	330.4	14.4
30°-40°	394.1	17.2
40°-50°	407.4	17.7
50°-60°	372.0	16.2
60°-70°	292.7	12.7
70°-80°	170.4	7.4
80°-90°	31.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	628.0	27.4
0°-40°	1022.1	44.5
0°-60°	1801.5	78.5
0°-90°	2296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	817	815	810	817	816	77
15°	775	776	778	788	788	219
25°	701	705	714	731	734	323
35°	601	609	628	652	658	376
45°	484	500	529	559	566	374
55°	362	381	421	452	459	324
65°	239	264	305	329	336	237
75°	120	148	181	178	171	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	819.6	819.6	819.6	819.6	819.6
2.5°	820.8	818.5	815.1	820.8	819.6
5°	817.4	815.1	810.5	817.4	816.2
7.5°	810.5	808.3	806.0	812.8	811.7
10°	801.4	800.3	799.1	807.1	806.0
12.5°	790.0	790.0	788.9	798.0	798.0
15°	775.2	776.4	777.5	787.8	787.8
17.5°	761.6	760.4	763.9	775.2	776.4
20°	742.2	744.5	749.1	762.7	763.9
22.5°	722.9	725.1	733.1	746.8	750.2
25°	701.2	704.7	713.8	730.8	734.3
27.5°	678.5	683.0	695.6	713.8	717.2
30°	653.4	660.3	673.9	694.4	697.8
32.5°	628.4	635.2	652.3	672.8	677.3
35°	601.1	609.0	628.4	652.3	658.0
37.5°	572.6	582.9	605.6	629.5	636.4
40°	544.1	555.5	580.6	605.6	613.6
42.5°	515.7	527.1	554.4	582.9	590.8
45°	483.8	499.7	529.3	558.9	565.8
47.5°	453.1	470.2	503.2	532.8	541.9
50°	423.5	440.6	475.8	506.6	515.7
52.5°	392.7	411.0	448.5	480.4	488.4
55°	362.0	381.4	421.2	451.9	458.8
57.5°	331.3	351.8	392.7	422.3	430.3
60°	300.5	322.2	362.0	391.6	397.3
62.5°	269.8	292.6	333.5	359.7	365.4
65°	239.1	264.1	305.1	329.0	335.8
67.5°	209.5	234.5	274.3	297.1	302.8
70°	182.1	204.9	244.8	261.8	264.1
72.5°	148.0	176.4	215.2	224.3	218.6
75°	119.5	148.0	181.0	177.6	170.8
77.5°	91.1	119.5	141.2	129.8	120.7
80°	64.9	93.3	97.9	80.8	76.3
82.5°	42.1	64.9	54.6	42.1	34.2
85°	21.6	30.7	17.1	13.7	11.4
87.5°	6.8	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)